

City of Asheville North Carolina



REQUEST FOR BIDS AND PROPOSALS
BID REQUEST NO. 604-05

ONE (1) TRUCK MOUNTED HYDRAULIC
KNUCKLEBOOM LOADER FOR THE CITY OF
ASHEVILLE PUBLIC WORKS DEPARTMENT

ISSUED BY: CITY OF ASHEVILLE PURCHASING DIVISION
P. O. BOX 7148
ASHEVILLE, NC 28802
PHONE: (828) 259-5950
NORWOOD R. DUNN, PURCHASING DIRECTOR

ISSUE DATE: TUESDAY, MARCH 15, 2005

BIDS ARE TO BE SEALED AND MAILED TO THE ABOVE POST OFFICE BOX
OR DELIVERED TO THE PURCHASING DIVISION OFFICE LOCATED
AT NO. 3 HUNT HILL PLACE, ASHEVILLE, NC 28801
BID OPENING DATE: THURSDAY, APRIL 21, 2005, AT 3:00 P.M.

CITY OF ASHEVILLE, NORTH CAROLINA

PURCHASING DIVISION

Bid Request No. 604-05

Date: March 15, 2005

REQUEST FOR BIDS AND PROPOSALS ON

ONE (1) TRUCK MOUNTED HYDRAULIC KNUCKLEBOOM LOADER
FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT

Pursuant to General Statutes of North Carolina, Section 143-129, as amended, sealed bids and proposals, subject to the conditions and specifications herein, are invited for furnishing the following equipment, materials, services or repair work. **All bids will be received by the City of Asheville Purchasing Division until 3:00 p.m. on Thursday, the 21st day of April, 2005, at which time they will be publicly opened and read.**

TERMS: Net 30 Days

CITY OF ASHEVILLE, N. C.

DELIVERY: ASAP - Bidder Specify Best Delivery

BY: _____
Norwood R. Dunn, Purchasing Director**POSITIVELY NO BIDS CONSIDERED UNLESS SUBMITTED ON THIS FORM**

NOTICE TO BIDDERS: All tax imposed upon any article on which you are bidding shall be shown as separate items and in no case included with price bid. Failure to comply with these conditions will be considered grounds for rejection.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	UNIT PRICE	EXTENSION
		ONE TRUCK MOUNTED HYDRAULIC KNUCKLEBOOM LOADER FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT PER THE ATTACHED SPECIFICATIONS, TERMS AND CONDITIONS.			
		BIDDERS PLEASE NOTE: 1. <u>SPECIAL TERMS AND CONDITIONS</u> – BID PAGE 6, ITEM NO. 9 - EXCEPTIONS TO SPECIFICATIONS OR ALTERNATE BIDS. THE DEADLINE FOR THE CITY'S PURCHASING DIVISION TO RECEIVE EXCEPTIONS TO SPECIFICATIONS, ETC. IS BY 3:00 PM ON THURSDAY, APRIL 7, 2005.			
					CONTINUED

COMPANY NAME: _____
ADDRESS: _____
CITY/STATE/ZIP: : _____
FEDERAL TAX I.D. NO.: _____
EMAIL ADDRESS: _____SIGNED: _____
DATE: _____
TELEPHONE: _____
FAX NUMBER: _____

CITY OF ASHEVILLE, NORTH CAROLINA

PURCHASING DEPARTMENT

REQUEST FOR FORMAL PROPOSALS

ITEM NO.	QUANTITY	DESCRIPTION	UNIT	UNIT PRICE	EXTENSION
A.	1	<p>TRUCK MOUNTED HYDRAULIC KNUCKLEBOOM LOADER FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT PER THE ATTACHED SPECIFICATIONS, TERMS & CONDITIONS. RE: SPECIFICATION PAGE 12 THROUGH 21</p> <p>BID: <u>TRUCK MOUNTED KNUCKLEBOOM LOADER</u> <u>24 CUBIC YARD CAPACITY</u></p> <p>MFG'R: _____</p> <p>MODEL: _____</p> <p>CAPACITY _____ CUBIC YARDS</p> <p><u>TRUCK CHASSIS</u></p> <p>MFG'R: _____</p> <p>MODEL: _____</p> <p>YEAR: _____</p> <p>DELIVERY WITHIN _____ DAYS A.R.O.</p>	EACH	\$ _____	\$ =====

COMPANY NAME: _____
SIGNED: _____ TITLE: _____

GENERAL CONDITIONS

1. All bids and proposals shall be for furnishing apparatus, supplies, materials, equipment and/or work and services in accordance with the applicable plans and specifications prescribed by The City of Asheville. From the date shown until the date of opening the proposals, the plans and specification of one proposed work and/or a complete, description of the apparatus, supplies, materials or equipment and/or work and services are an will continue to be on file in the office of the Director of Purchasing for City of Asheville, N. C., during usual office hours, and available to prospective bidders.
2. The City reserves the right to evaluate all bids especially where there is a wide range in specifications or to reject any and all bids and proposals, and further specifically reserves the right to make the award and/or awards in the best interest of the City of Asheville.
3. Time, in connection with discount offered, will be computed from date of delivery of the supplies or materials on delivery at destination when final inspection and acceptance are at those points, or from date correct invoice is received if latter is later than the date of delivery. Guaranteed maximum price must be shown in all bids.
4. In case of default of the contractor, the City may procure the articles or services from other sources and hold the contractor responsible for any excess cost occasioned thereby.
5. Payment by City due thirty days after delivery in Asheville and inspection unless otherwise specifically provided, subject to any discounts allowed.

BID

In compliance with the above request for bids, and subject to all the conditions thereof, the undersigned offers and agrees, if this bid be accepted within 60 days from the date of the opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, and unless otherwise specified, within _____ days after receipt of order, deliver F.O.B. Asheville, NC. Discounts will be allowed for prompt payments as follows: 10 calendar day, _____ per cent; 15 calendar days, _____ per cent; 20 calendar days, _____ per cent; 30 calendar days _____ per cent.

Bidder: _____ **Address:** _____ **Zip:** _____

By: _____ **Title:** _____

(Authorized to sign bids)

Telephone Number: _____

Date: _____

MAILING INSTRUCTIONS

1. Bidder to submit a complete, fully executed bid document.
2. If mailed, bid should be forwarded by certified U. S. mail. Please address and mark your bid as shown below.

<p>CITY OF ASHEVILLE, N. C. PURCHASING DIVISION P. O. BOX 7148 ASHEVILLE, N. C. 28802 BID REQUEST NO. 604-05 1 KNUCKLEBOOM LOADER TO BE OPENED 3:00 O'CLOCK P.M. THURSDAY, APRIL 21, 2005</p>
--

3. If forwarded other than by mail, delivery must be made directly to City of Asheville, Purchasing Division, No. 3 Hunt Hill Place, Asheville, North Carolina 28801.

NOTE: IF MAIL OR DELIVERY BY ANY OTHER MEANS IS DELAYED BEYOND THE DATE AND HOUR SET FOR BID OPENING, PROPOSAL THUS DELAYED WILL NOT BE CONSIDERED.

CITY OF ASHEVILLE
PURCHASING DIVISION

**SPECIAL TERMS AND CONDITIONS FOR OF ONE (1) HYDRAULIC
KNUCKLEBOOM LOADER WITH DUMP BODY TRUCK CHASSIS
FOR THE CITY OF ASHEVILLE PUBLIC WORKS DEPARTMENT**

1. **DETAILED SPECIFICATIONS:** Detailed specifications for this equipment are included as an attachment with the bid request.

Bids to be submitted in accordance with the attached specifications and these Special Terms and Conditions, both of which require doing all that is necessary, proper, or incidental to the furnishing of the equipment identified herein. All things not expressly stated in the attached specifications or Special Terms and Conditions but involved in carrying them out must be included in bidder's proposal as though they were specifically stated.

2. **NOTICE TO BIDDERS:** All bids are subject to the provisions of the instructions to Bidders, special terms and conditions specific to this Invitation for Bids, the specifications, and General Contract Terms and Conditions. The City of Asheville objects to and will not evaluate or consider any additional terms and conditions submitted with a bidder response. This applies to any response appearing in or attached to the document as part of the bidder's response. DO NOT ATTACH ANY ADDITIONAL TERMS AND CONDITIONS. By execution and delivery of a proposal, the bidder agrees that any additional terms and conditions, whether submitted purposely or inadvertently, shall have no force or effect. It shall be the bidder's responsibility to read this entire document, review all enclosures and attachments, and comply with all requirements specified herein.
3. **ISSUING OFFICE:** This bid request is issued by the City of Asheville Purchasing Division, No. 3 Hunt Hill Place, P. O. Box 7148, Asheville, North Carolina 28802. All correspondence and inquiry should be made to this address.
4. **CLARIFICATIONS/INTERPRETATIONS:** Any and all questions regarding this document must be addressed to the City of Asheville Purchasing Division. Technical inquiries may be directed to the individual named herein. Any and all revisions to this document shall be made only by written addendum from the City of Asheville Purchasing Division. Therefore, no oral statements by any person shall modify or otherwise affect the terms, conditions, or specifications stated in

Continued

this request for bids and proposals. The bidder is cautioned that the requirements of this bid can be altered only by written addendum and that verbal communications from whatever source are of no effect.

5. **COMPLIANCE WITH RULES AND REGULATIONS:** The equipment furnished must comply with all applicable provisions of the Occupational Safety and Health Act (OSHA), the American National Standard Institute (ANSI) and the Federal Motor Vehicle Standards of the U. S. Department of Transportation. The equipment furnished shall be capable of passing any applicable N. C. State motor vehicle inspection.
6. **GENERAL REQUIREMENTS:** The proposed equipment shall be current model year production and furnished complete and ready for use as required by the terms of these specifications.

The equipment furnished shall be the manufacturer's latest listed and published stock model, or models which meet all the applicable requirements of these specifications. Specifications may require that certain makes and models of vehicles, auxiliaries and/or accessories be provided.

All design, materials, and workmanship shall in every respect be in accordance with the best current practices in the industry and all materials used shall be new.

7. **TECHNICAL INQUIRIES:** Questions regarding specifications to be directed to Mr. Chris Dobbins, Fleet Manager, Monday through Friday, 8:30 a.m. – 5:00 p.m. Telephone 828-259-5702.
8. **MINOR DEVIATIONS/EXCEPTIONS TO SPECIFICATIONS:** Minor deviations from the provisions of these specifications may be considered to permit manufacturers to follow their standard manufacturing processes; however, all proposed minor deviations must be explained in detail and submitted within the exceptions to specifications, time frame identified herein.
9. **EXCEPTIONS TO SPECIFICATIONS OR ALTERNATE BIDS:** In all cases equipment must be furnished as requested, and where brand names are used, consider the term "or equal" to follow. However, written approval for any proposed substitution or change in specifications must be obtained by bidder prior to the close of bids. **Requests for approved equals, clarifications or changes in specifications, and/or protests of specifications must be received by the City of Asheville in writing, not less**

than fourteen (14) days before the date of scheduled bid opening. Such requests should be mailed to City of Asheville, Purchasing Division, P. O. Box 7148, Asheville, North Carolina 28802. Mark envelope “EXCEPTIONS TO SPECIFICATIONS”.

Any request for an approved equal, change in specification or protest of specifications must be fully supported with technical data, test results, or other pertinent information and evidence that the substitute offered is equal to, or better than, the specification requirement. In the event that clarifications or changes to bid specifications are necessary or if a proposed substitution is approved during the exception process, the City of Asheville will, if necessary, postpone the scheduled opening of bids so as to provide at least seven (7) days between the mailing of the amended bid specifications and the revised bid opening date.

Changes to specifications will be made by written addendum. Prospective bidders may make appointments to discuss these specifications. This, however, does not relieve prospective bidders from the requirement for a written request for clarification or change to the specifications.

Bidder's failure to request exceptions to specifications or approved equals as stated above will be interpreted as the bidders' intent to comply fully with the requirements as written. Conditional or qualified bids shall be subject to rejection in whole or in part.

The City of Asheville reserves the right to postpone bid openings for its own convenience.

10. **NONCONFORMING TERMS AND CONDITIONS:** A bid response that includes terms and conditions that do not conform to the terms and conditions in this bid document is subject to rejection as nonresponsive. The City of Asheville reserves the right to permit the bidder/vendor to withdraw nonconforming terms and conditions from its bid response prior to a determination by the City of Asheville of nonresponsiveness.
11. **BIDDERS SUBMITTALS:** Bidder must furnish all information requested herein including descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid will not satisfy this provision. Bids which do not comply with these requirements will be subject to rejection. All documents submitted should bear the name of the bidder.

12. **EXPENSES INCURRED IN PREPARING BID:** The City of Asheville accepts no responsibility for any expense incurred by the bidder in the preparation and presentation of a bid. Such expenses shall be borne exclusively by the bidder.
13. **CONTRACT/AWARD:** Pursuant to the laws governing public contracts in North Carolina, the successful bidder's/vendor's response to this Request for Bids and Proposals and any addenda thereto, plus the City's issuance of a City of Asheville Purchase Order for the proposed goods and/or services shall constitute a binding contract.
14. **OPTION TO PURCHASE ADDITIONAL REQUIREMENTS:** Subject to the successful bidder's acceptance, the City reserves the option to purchase additional equipment as specified herein at the price bid and awarded in this Request for Bids and Proposals.
15. **INDEMNIFICATION:** The bidder/vendor covenants to save, defend, keep harmless, and indemnify the City of Asheville and all of its officers, departments, agencies, agents, and employees from and against all claims, loss, damage, injury, fines, penalties and cost - including court costs and attorney's fees, charges, liability, and exposure, however, caused - resulting from, arising out of, or in any way connected with the bidder's/vendor's negligent performance or nonperformance of the terms of the contract.
16. **ASSIGNMENT:** During the performance of the contract, the bidder/vendor shall not assign, transfer, convey, sublet, or otherwise dispose of any award or any or all of its rights, title, or interest therein, without the prior written consent of the City of Asheville.
17. **VENDOR APPLICATION AND PRIVILEGE LICENSE:** Bidders/vendors that have not previously submitted (within last 12 months) a vendor's application and/or privilege license should download an application from the City website at www.ashevillenc.gov and submit with their bid.
18. The vendor shall be responsible for seeing that any and all laws of the State of North Carolina concerning certificate of origin, title, transit or transportation documents, et al, are complied with in all respects.
19. Where reference is made to equipment to be "furnished" or "provided" by the bidder these words shall be read to mean suitably installed on each piece of equipment.

20. **VENDOR SUPPORT/SERVICE AND PARTS:** The vendor and/or manufacturer bidding on these specifications must describe in writing to be submitted with their bid, its ability to provide repair parts and technical service in the form of a service representative, including the maximum time from receipt of notice to arrival of parts or the service representative. The manufacturer, whether they are the vendor or not must be satisfactory to the City of Asheville from the standpoint of experience, reliability, and demonstrated ability to manufacture equipment comparable as to size and type as that required by the specifications, and shall have manufactured and sold equipment of the size and type specified which has operated satisfactorily in the field for a minimum of one year. The City of Asheville reserves the right to reject bids from vendors that have failed to perform satisfactory under previous contracts with the City of Asheville and/or vendors that cannot produce satisfactory evidence that they can furnish promptly all spare parts needed for ordinary service and repair of the equipment herein specified.
21. **INSPECTION, TRAINING, PERFORMANCE TEST AND ACCEPTANCE:**
- a. Upon delivery the equipment will be subject to inspection to verify conformance with specifications by the staff of the City's Fleet Management Division and the Public Works Department.
 - b. Upon completion of the initial inspection and prior to performance testing by the City, the vendor will be required to conduct on-site technical training of City personnel in operation and maintenance procedures. Vendor must include in their bid any or all cost associated with providing this on-site training.
 - c. Upon completion of on-site training the equipment may be required to undergo on route testing prior to acceptance. Performance testing will be performed by City personnel during regular scheduled work days.
 - d. Any defects or failure of equipment to perform or comply with any requirements of the City specifications must be immediately remedied by the vendor at the vendor's own expense prior to acceptance by the City.
22. **INDEMNIFICATION:** The successful bidder/vendor agrees to indemnify and hold harmless the City of Asheville against any and all claims or causes of action for property damage or personal injury arising out of or relating to the negligence of the successful bidder/vendor, its officers, employees or agents during the test period for the operation of the vehicle prior to acceptance of the vehicle by the City of Asheville.

23. **WARRANTY:** Bidder to include the warranty provisions as outlined in bid specifications.
24. **TAX EXEMPTIONS:** The City of Asheville is exempt from Federal Excise Tax but not State and Local Sales Tax. Sales tax should not be included in bid prices, but may be added as separate items.
25. **SUBMITTALS:** Bidders to submit one (1) original bid package and one (1) complete copy.
26. **LEASE PURCHASE FINANCING:** Pursuant to N. C. General Statute 160-A-20, the City of Asheville may secure lease/purchase financing arrangements for some or all equipment proposed. All bids for the sale of this equipment must provide for payment by third party lease/purchase arrangements.
27. **EQUIPMENT DEMONSTRATION:** Each bidder shall be prepared to schedule a demonstration of the type of equipment proposed at a location mutually agreeable to the bidder and City staff members. The location should be within reasonable traveling distance from the City of Asheville and the City of Asheville shall be responsible for the travel expense of its staff members in attending any such demonstration. Equipment demonstration may be of vendor owned equipment or third party owned equipment at the discretion of the bidder.
28. **DELIVERY:** Delivery shall be made FOB: City of Asheville, Fleet Management Division, 173 South Charlotte Street, Asheville, North Carolina 28801. Bidder should give minimum seven (7) days notice of delivery of vehicles to Chris Dobbins, Fleet Manager. Telephone number 828-259-5702.
29. **COMMERCIAL GENERAL LIABILITY INSURANCE:** The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Products/Completed Operations Aggregate	\$2,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000

Coverage shall be written on a Commercial General Liability form and must include finished products/completed operations. The policy shall be written on an occurrence form and shall include Contractual Liability coverage.

The required limits can be provided by one or more policies provided all other insurance requirements are met.

Coverage shall be provided by a carrier(s) rated "Excellent" by A.M. Best.

Within 14 days following notice of award, the successful bidder shall furnish the City of Asheville with a current Certificate of Insurance with coverages listed above. The certificate shall be made out to the purchaser and be an original, no photocopies shall be accepted. The Certificate of Insurance shall provide that the City be given 30 days advance notice of cancellation, nonrenewal or material change in coverage.

30. **EVALUATION AND SELECTION OF BIDS:** The evaluation of vendor bids shall center on the match between the stated specifications and other requirements included in the final bid request and the vendor's proposal including selection of the lowest responsible bidder, with consideration of past performance, service record, and reliability. The statutory provisions controlling purchasing by local governments in N. C. (GS 143) includes selection standards for use in making of awards. The provision reads, "All contracts shall be awarded to the lowest responsible bidder, taking into consideration quality, performance, and the time specified in the bids for the performance of the contract". The City of Asheville reserves the right to accept or reject any or all bids and proposals and further specifically reserves the right to make the award or awards in the best interest of the City of Asheville.
31. All bids shall be made firm for no less than sixty (60) days.

HYDRAULIC KNUCKLEBOOM LOADER WITH DUMP BODY TRUCK CHASSIS

Minimum technical specifications for (1) one Hydraulic Knuckleboom Loader with Dump Body Truck Chassis to be used in the Public Works Department. Vehicle shall be new, unused and manufacturer's latest production model. All Federal, State and OSHA requirements and standards shall be met.

NOTE: All bidders shall respond to each category below. Any 'no' responses or deviations shall be explained in the space provided. If complies, put a check mark in the appropriate box.

<u>SPECIFICATION</u>	<u>COMPLIES</u>	<u>IF NO: DEVIATES AS NOTED</u>
1. Knuckleboom Body – 24 Cubic Yard Capacity		
A. <u>DESIGN:</u>		
1. The Knuckleboom Loader is engineered for the collection of brush, limbs, and leaves in the municipal and private-sector markets. It is also designed to be used in the collection of white goods, brown goods, demolition material and roadside litter. Total boom reach to be 22 ft. (18 ft. Fixed with 4 ft. Telescopic tip boom).		
2. The Knuckleboom Loader is designed to be utilized as a one-person operation. The loader assembly is mounted between the back of the chassis cab, and the front of the dump body. The loader lifts and loads material through the use of main boom, jib boom, extendable tip boom, and rotating trash bucket. The loader is stabilized through the use of two (2) four-way adjustable outrigger assemblies. Material is loaded into the dump body and hydraulically unloaded via a single cylinder scissor hoist.		
B. <u>TURRET BASE ASSEMBLY:</u>		
1. The turret base sides, front, and back are constructed of ¼" Plate HRS, reinforced with ¼" X 4" flat bar corner braces. The turret base top plate is constructed of 1- ¼" Plate HRS, precision ground to a .006 finish. Situated on top of the turret base top plate is the precision-made, 30" diameter, 4-point, roller-sling bearing. The bearing is rated at an intermittent heavy duty of 82,766 ft.-lbs. The bearing is equipped with two grease zerks, located 180 degrees apart.		

COMPANY NAME: _____ BY: _____

C. <u>TURRET ASSEMBLY:</u>		
<p>1. The loader has an open, modified box-type turret assembly. The turret side plates are constructed of 1/4" Plate HRS with 1/4" X 3" HRS flat bar wrappers on the top and leading edges. The trailing edges of both the turret side plates are reinforced with a welded 3/8" X 2- 1/4" strap. Both turret sides are braced with 3"X3"X 1/4" structural angle iron. The main boom pin is a 2" diameter, by 18- 1/4" long, CRR pin with a 1/4" chamfer on each end. Both the main boom pin, and the main boom cylinder pin have 1/4" Plate HRS keepers, and 3" OD, by 2" ID pin bosses. The turret assembly base plate is 30" diameter, 1" Plate HRS, precision ground on a .006 finish. The turret assembly base plate is attached to the sluing bearing via sixteen 3/8" Grade 8 bolt/lock nuts. The turret assembly shaft is a 3/4" wall, 6" OD by 4- 1/2" ID HRS round tube.</p>		
D. <u>OUTRIGGER ASSEMBLY:</u>		
<p>1. The loader is equipped with 4-way adjustable hydraulic stabilizers. The stabilizers have independent controls which allow for intermittent in/out and up/down adjustment. Each outrigger must have a strobe light installed on top that telescopes with outrigger.</p>		
<p>2. The outer cross tube is a 1/4" wall, 6" X 8" OD rectangular tube with 3/8" Plate HRS end wrappers. The outer cross tube contains four replaceable 1- 1/2" X 4 Gauge formed angle wear strips, one in each corner. The inner cross tubes are 1/4" wall, 5" X 7" OD rectangular tubes. The outer cross tube is equipped with eight grease zerks, four on each end. The outer cross tube is connected to the cab/chassis frame using two 6" X 6" X 3/4" section of HR Angle. The HR Angle is welded to the outer cross tube, and then bolted to the cab/chassis frame.</p>		

COMPANY NAME: _____ BY: _____

3. The outer vertical tubes are 1/4" wall, 6' X 8" OD rectangular tube with 3/8" Plate HRS end wrappers. The outer vertical tubes are equipped with four grease zerks each. The inner vertical tubes are 1/4" wall, 5" X 7" OD rectangular tubes. The inner vertical tubes are constructed with four replaceable 1- 1/2" X 1/2" X 4 Gauge formed angle wear strips, one on each corner. The inner vertical tubes are connected to 1/4" Plate HRS pad brackets, which are connected to 3/8" thick, 8" X 10" Plate HRS foot pads. The foot pads are connected to the pad brackets via a single 1" Grade 5 bolt/lock nut.		
4. The top of each outer vertical tube is equipped with a 10 gauge, 6" X 6" strobe light mounting bracket. Each mounting bracket is topped with a Whelen Model amber lens, 12 volt, strobe light. Both strobe lights are wired to a single, in-cab switch.		
E. <u>MAIN BOOM ASSEMBLY:</u>		
1. A single boom design is used to prevent axial rotation and bushing damage. The main boom is equipped with a counter balance valve to slow the boom descent in the event of a hydraulic failure. Main boom to be a minimum of 18 ft. in length.		
2. The main boom is constructed using two, 7 Gauge formed channels continuously welded down their center lines. The main boom has one 1/4" Plate HRS lap plate welded to the top/center for extra reinforcement. The main boom pivot pads are 3/8" Plate HRS weldments, welded to both sides of the main boom, and attached to the turret assembly via a replaceable oil-impregnated bronze bushing and a 2" diameter 1018 cold rolled steel pin. The main boom clevis plates are 1/2" Plate HRS weldments, welded to both sides of the main boom. The main boom clevis plate bosses are 3" OD X 1- 3/4" ID, and accept 1- 3/4" OD cylinder pins. The main boom tip end is 3/4" Plate HRS welded to both sides of the main boom.		
F. <u>TIP BOOM ASSEMBLY:</u>		
1. A single boom design is used to prevent axial rotation and bushing damage. The tip boom is equipped with a counter balance valve to slow boom descent in the event of a hydraulic failure.		

COMPANY NAME: _____ BY: _____

2. The tip boom is constructed of a single, 1/4" wall, 6" X 8" structural tube with a 1/4" Plate HRS weldments, welded to both sides of the tip boom on the main boom end of the tip boom. The tip boom clevis plate bosses are 3" OD X 1- 3/4" ID, and accept 1- 3/4" OD cylinder pins.		
<u>G. TIP BOOM EXTENSION ASSEMBLY:</u>		
1. The tip boom extension is a retractable/extendable telescoping section that is housed within the tip boom assembly. The tip boom extension is constructed of a single, 1/4" wall, 5" X 7" structural tube with four replaceable abrasion resistant strips, two running horizontally on either side, to prevent metal-to-metal wear. The abrasion resistant strips are 3/16" X 1- 1/4" cold rolled flat bar. Tip boom to telescope a minimum of 4 ft.		
2. The tip boom extension end plates are 3/4" Plate HRS welded to both sides of the tip boom extension on the grapple (trash bucket) end. These plates hold the grapple (trash bucket) assembly.		
<u>H. BOOM CONNECTION POINTS:</u>		
1. All boom connection points are equipped with replaceable oil-impregnated bronze bushing with a 2" 1018 CRR pin.		
<u>I. GRAPPLE ASSEMBLY:</u>		
1. The trash bucket is especially designed for the intended use. It is of the heavy-duty type, 48" long, and measures 60" from side to side when fully opened. Ground clearance at the center of the trash bucket is a minimum of 24" when it is fully opened, and resting on level ground. Rotation of the trash bucket is accomplished using a hydraulically driven continuous rotation bucket motor. Rotation of the bucket is 360 degrees continuous in either direction with no need for physical stops. The bucket is opened and closed via two hydraulic cylinders. The bucket cylinders and associated hosing are located below the bucket motor, but are protected.		

COMPANY NAME: _____ BY: _____

2. The trash bucket top plate is constructed of 3/4" Plate HRS. The bucket rotator assembly attaches to this plate via six 5/8" Grade 8 bolts/lock nuts. The bucket blades are 3/8" Plate HRS with a 3/8" X 3" replaceable edge strip. The blades form a reverse curve when closed to help avoid scalping and digging on grass lawns. There are four blades per side, for a total of eight per bucket. Finally, the trash bucket is totally enclosed in 7 Gauge side material, and 11 Gauge top material to assist leaf and sand pick-up operations.		
J. <u>HYDRAULIC POWER TAKE OFF:</u>		
1. Hot Shift P.T.O. is directly coupled to the chassis transmissions. Drive line shafts are not acceptable.		
2. Over Speed Protection: All Hot Shift and Electric Shift PTO's will have over speed protection. Electronic transmissions will have over speed protection programmed into them.		
K. <u>LOADER LIFTING CAPACITIES:</u>		
1. 8 ft.: 8670 lbs. 10 ft.: 7040 lbs. 16 ft.: 3690 lbs. 20 ft.: 2700 lbs. 22 ft.: 2500 lbs.		
L. <u>HYDRAULIC SPECIFICATIONS:</u>		
1. Hydraulic Tank: 30-gallon tank complete with service cut-off valves, sight gauge, thermometer, vent filter, and suction filter.		
2. Cylinders: Main boom-6" X 3" shaft Tip boom-4" X 2- 1/2" shaft Tip boom ext-3" X 1 1/2" shaft Outrigger in/out-(2) 3" X 1- 1/2" shaft Outrigger up/down-(2) 3" X 1- 1/2" shaft Bucket-(2) 3" X 1- 1/2" shaft		
3. Control Valve: Stake type with port reliefs.		
4. Counter Balance Valves: Installed on main boom and tip boom to prevent collapse in case of hydraulic failure.		
5. Pump: Single, direct mount, gear type, hydraulic pump.		

COMPANY NAME: _____ BY: _____

6. Conductors: Steel tubing with two wire braided hoses rated at 3,000 PSI, with a 12,000 PSI minimum burst rate.		
M. <u>OPERATOR CONTROLS:</u>		
1. The loader is equipped with dual "stand-up" operator stations. Each station is located between the back of the chassis cab, and the front of the dump body. Unit to have walk thru platform with an 18" minimum clearance.		
2. The control station frame is constructed of 2" X 2" X 1/4" angle iron with 1/4" Sch 80 linkage rods, 3/4" diameter X 11 Gauge control rods with threaded handles, and UHMW control bearing blocks.		
3. The control handles are located on either side of the unit, and they are connected to a single valve bank via the control rod linkages. The valve bank is centered on the front side of the turret base assembly, is well protected, and is easily accessible for service.		
4. The following control functions are located on either side of the unit: Throttle Advance: On/Off Bucket: Open/Close Bucket Rotation: CW/CCW Tip Boom Extension: Out/In Turret Swing: CW/CCW Tip Boom: Retract/Extend Main Boom: Lower/Rise Air over hydraulic outrigger controls" (4 way) Dump body control: Driver side of unit		
5. Serrated steel steps are located on either side of the unit for safe access to the operator's platform from ground level. Both operator platforms are constructed of 3/16" diamond plate steel for secure footing during loader operation.		
N. <u>DUMP BODY:</u>		
1. Floor: 10 Gauge plate Steel, welded, with seams ground smooth to the sides and headboard.		
2. Headboard: 12 Gauge plate steel.		
3. Top Rails: 3" X 4" X 1/8" steel tubing.		

COMPANY NAME: _____ BY: _____

4. Bottom Rails: 3" x 4.1 lb/ft. structural channel.		
5. Sides: 12 Gauge plate steel		
6. Side Stakes: 3" X 7" X 12 Gauge, 4-way bend on 24" centers. Weep holes on bottom exteriors.		
7. Rear Corner Posts: 3" X 9" X 12 Gauge, 4-way bend		
8. Cross Members: 3" X 4.1 lb/ft. structural channel on 16" centers. Every other cross member is gusseted to long sills.		
9. Long Sills: 8" structural channel		
10. Rear Barn Doors: 3" X 4" X 12 Gauge formed perimeter framing with a single horizontal brace door skin material is 12 Gauge plate steel.		
11. Rear Barn Door Locks: Two positive latches per door. Doors can be swung completely around to the side and chained open for the dumping operation. Each door has two greaseable hinges.		
12. Hoist: The dump hoist is a single cylinder, scissor type, rated at 15 tons. It will achieve a minimum 45-degree dump angle without the rear of the body touching the ground.		
13: Lights and Safety: The body comes complete with safety props, all lights and reflectors required by D.O.T. federal standards, reflective tape on sides and rear of body, ICC bumper, and rear mud flaps.		
14. Tarp Rail: 1" X 1/4" tarp rail running continuously down each side of the body. ID Dimensions: 19' X 87" X 42"-62"		
15. Cubic Yard Capacity: 24 Cubic yards minimum		
O. <u>MOUNTING</u> :		
1. Mounting to be done at the factory by certified body-mount specialists. Any chassis sent to the factory that does not meet the minimum chassis requirements will not be mounted.		
P. <u>PAINTING</u> :		
1. The Knuckleboom loader and dump body will receive a minimum of one coat of high solids primer, followed by a minimum two coats of automotive grade acrylic enamel paint. The finish color will be white.		

COMPANY NAME: _____ BY: _____

Q. <u>TARP SYSTEM:</u>		
1. Self-winding load covering device that attaches to the dump body headboard and is pulled out over the load by attaching to the trash bucket via a chain. A spring-loaded roller assembly retracts the tarp.		
<u>2. Truck Chassis Specifications</u>		
A GVW: 35,000 lbs, factory placard.		
B. Cab to Axle: Manufacturers standard to accommodate the body.		
C. Front Axle: 12,000 lbs. With Taper Leaf Springs		
D. Single Rear Axle: 23,000 lbs. With Helper Springs		
E. Engine: Caterpillar C-7 turbo-diesel, 275 HP @ 2200 RPM; 800 LB/FT @ 1440 RPM. Must meet current emission standards at time of purchase. The engine block heater shall be 1500 watts, 110 volt with a receptacle on the driver's side of the cab. Road speed governor shall be programmed for a 65 mph top speed. Low oil and high temperature warning buzzer or bell. Anti-freeze coolant protection to -20 degrees F.		
F. Exhaust: Mounted under the frame and extended past loader operator platform.		
G. Filters; Equipped with full-flow oil filters, fuel filters, water filters, two-stage dry type air filters with dash mounted restriction gauge.		
H. Transmission: Allison MD 3560 P 6 Speed Automatic. Allison model transmission required. No exceptions.		
I. Frame: Steel construction, chassis frame rails shall have minimum 110,000-psi yield strength. Painted semi-gloss black		
J. Bumper: Painted heavy-duty front with (2) tow hooks at chassis connections.		
K. Fuel Tank: 50 Gallon capacity, step type.		
L. Electrical: Gauge package, AM/FM Radio, 100 AMP alternator, (2) 12 volt 1500 CCA batteries, heater/defroster/air conditioning, circuit breakers. Electric backup alarm provided. All wiring on truck and body to be soldered and waterproof sealed or approved equal, no scotch loks.		
M. Lighting: To meet all D.O.T. standards.		

COMPANY NAME: _____ BY: _____

N. Mirrors: Heated West Coast type on both sides ,outside cab. In addition an 8 inch convex mirror on each side. Right mirror shall be 4-way power motorized (MOTO or equal). Dash mounted and labeled switch.		
O. Cab: Aluminum or steel construction. Air-Ride Drivers Seat, 2-Man Passenger Seat Tinted glass with dual sun visors. Trim color gray.		
P. Brakes: Air Brakes with a Heated Air Dryer and Automatic Moisture Ejector 13.2 CFM Compressor Brake system is air ABS – S cam type Meritor. Heavy duty rated for mountainous terrain. Includes dual air pressure gauges, low air pressure warning light and alarm. Meritor front and rear automatic slack adjusters with air activated spring-loaded parking brake.		
Q. Tires: Front: 11R22.5 / 14 ply, Rear: 11R22.5 / 16 ply		
R. Steering: Power steering with tilt wheel.		
S. Wheels: Disc Front and Rear		
T. Misc.: Air Horn, (2) Whelen Yellow Strobe Lights Mounted on Top of Mirrors		
U. Safety Equipment: One (1) 10 lb ABC fire extinguisher externally mounted with a metal bracket. Location to be determined by Fleet Management with the successful bidder. One (1) set D.O.T. triangles.		
V. Color: Body Exterior White		
W. Service Facilities: The chassis manufacturer shall operate a service facility capable of performing repairs associated with the equipment they represent. This facility shall be located within approximately 25 miles of the a City of Asheville, Fleet Management facility at 173 S. Charlotte St. The service facility shall be stocked with common replacement and high wear parts, as may be designated by the equipment manufacturer, and approved by the City of Asheville.		
X. Nu-Life Environmental body considered equal.		
3. Manuals: To cover all specified equipment.		
A. One complete set of parts and service manuals.		
B. Two complete sets of operation manuals.		

COMPANY NAME: _____ BY: _____

4. Warranty: To cover all specified equipment.		
A. Basic: Minimum 24 months and/or minimum 24,000 miles, 100% parts and labor, no deductibles with exceptions for service adjustments and consumable items. Warranty period to begin when body is placed into service by the City of Asheville. Provide written documentation of warranty coverage.		
5. Ownership Documentation: All required title, licensing paperwork and a copy of the invoice must be with the equipment at time of delivery. North Carolina State Inspection applicable to Buncombe County emissions requirements.		

Machine field trials of the equipment by City of Asheville staff may be taken into consideration in the award of this bid.

Consideration given in the evaluation of bids for award may include historical operating cost/mile data, delivery capability, local dealer warranty & service costs and other factors routinely considered in bid evaluations.

Delivered F.O.B.: City of Asheville, Fleet Management Division, 173 South Charlotte Street, Asheville, NC 28801

COMPANY NAME: _____ BY: _____

BID REQUEST NO. 604-05

ONE (1) TRUCK MOUNTED HYDRAULIC KNUCKLEBOOM
LOADER FOR THE CITY OF ASHEVILLE
PUBLIC WORKS DEPARTMENT

THE UNDERSIGNED AFIRMS THAT THE PROPOSAL MADE HERE-IN IS MADE WITHOUT ANY CONNECTIONS WITH ANY OTHER PERSON, OR PERSONS, MAKING ANY OTHER PROPOSAL FOR THE ABOVE ITEM(S): THAT IT IS IN ALL RESPECTS FAIR AND WITHOUT COLUSION OR FRAUD:

THAT _____ (FIRM NAME) IS NOT CONNECTED IN ANY OFFICIAL CAPACITY WITH THE CITY OF ASHEVILLE, AND THAT NO PERSON, OR PERSONS, ACTING IN SUCH CAPACITY ARE DIRECTLY, OR INDIRECTLY, INTERESTED HEREIN OR IN ANY OF THE PROFIT ARISING OR ANTICIPATED FROM THIS TRANSACTION.

IN MAKING THIS PROPOSAL, IT IS UNDERSTOOD AND AGREED, THAT THE CONDITIONS SET FORTH IN THE ADVERTISEMENT FOR BIDS, INSTRUCTIONS TO BIDDERS, TERMS AND CONDITIONS AND SPECIFICATIONS TOGETHER WITH THE PROPOSAL SHALL FORM A PART OF AND BE CONSTRUED WITH THE CONTRACT MADE UNDER THE SAME.

THE ACCEPTANCE OF THIS PROPOSAL BY THE CITY OF ASHEVILLE, AS EVIDENCED BY THE ISSUANCE OF A CITY OF ASHEVILLE PURCHASE ORDER, WILL BE HELD TO BE A MUTUAL AGREEMENT AS TO EACH AND EVERY CLAUSE OF THIS PROPOSAL AND TO CONSTITUTE A CONTRACT BETWEEN THE PARTIES HERETO.

FIRM NAME: _____

ADDRESS: _____

BY: _____

TITLE: _____